BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

BYATARAYANAPURA DIVISION

BYATARAYANAPURA SUB DIVISOIN

Name of the Work : Drilling of new Borewells providing Pump, motos and Pipeline at Various Places in Ward No. 06 Byatarayanapura Sub Division

EMB
Detail Measurements

Job Code: 006-20-000172

Scanned with CamScanner

BRUHAT BANGALORE MAHANAGARA PALIKE

DETAIL MEASUREMENTS

RA 1ST AND FINAL BILL

Name of work: Drilling of new Borewells providing Pump, motos and Pipeline at Various Places in Ward No. 06 Byatarayanapura Sub Division

Estimated Cost : Rs. 60.00 Lakhs

Work Code 006-20-000172

Name of Agency: Sri. Madhuraj H.N, Thirumala Complex, DVG Road, Bagepalli-561207

Work order No: BBMP/EE/BTP/WO/174/2020-21, Date: 13.01.2021

Measurements Recarded on :

SL. No	DESCRIPTIONS	NO	Length mtr	Width 1 mtr	Depth mtr	Quntity	Unit / Rate in Rs.	Amount in Rs.
1	Supply of Drinking Water through water tankers, of Capacity 6000 Liters and Hiring of Water tanker hiring of Tractor 40HP including cost of water and engaging Heavy Mazdoor to deliver water including cost of fuel labricants men and machinary etc complete including						Ltrs	
	Dt. 13.01.2021 to 31.01.2019							
	Dasrahalli Village and Rachenahalli Village Surrounding area	190				190		
	Thanisandra and Hegadenagara Surrounding area	190				190		
	Total Loads as per Log Book (Attached)					**380**		
	01.02.2021 to 28.02.2021							
	Dasrahalli Village and Rachenahalli Village Surrounding area	280				280		
	Thanisandra and Hegadenagara Surrounding area	280				280		
	Total Loads as per Log Book (Attached)					**560**		
	01.03.2021 to 31.03.2021							
	Dasrahalli Village and Rachenahalli Village Surrounding area	310				310		
	Thanisandra and Hegadenagara Surrounding area	310				310		
	Total Loads as per Log Book (Attached)					**620**		
	01.04.2021 to 12.04.2021							
	Dasrahalli Village and Rachenahalli Village Surrounding area	118				118		
	Thanisandra and Hegadenagara Surrounding area	118				118		
	Total Loads as per Log Book (Attached)					**236**		
					Total Loads	**1796**	622.00	1117112.00
2	Geophysical investigation of site for sinking borewell for supplying drinking water to the habitation either through the hand pump, MWS or P.W.S.S. by vertical electrical sounding by adopting venner or schlumbergers's method, including reconnaissance survey of geological formation, Geological investigation of existing ground water in vicinity, its quality, quantity & acceptability of the users indicating the location of site, recommended depth of casing pipe required to seal the top unconsolidated formation including an extra depth of 1.0 mtr in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site, engaging technical personal and labour required						Each	

Scanned with CamScan

	DESCRIPTIONS	NO	Length mtr	Width 1 mtr	Depth mtr	Quntity	Unit / Rate in Rs.	Amount in Rs.
	Prashanthinagara 3rd Cross	1				1		
	Kaveri nagar 3rd Cross	1				1		
	Ashwathnagara Mamatha Scanning Center Road	1				1		
						3	2026.00	6078.00
3	Sinking of borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above 900 CMF & above in all strata including over budern upto 20 m. fixing of casing pipes, collars & cap with necessary cutting, threading & welding including transportation of rig and supporting vehicle, crew charges & cost of consumables etc., complete including yield testing at the final depth with minimum working of compressor for one hour(excluding cost of casing pipes, collars, cap etc.,)						Rmtr	
	Ch. 0 to 50 m							
a	Prashanthinagara 3rd Cross	1	50			50.00		
b	Kaverinagra 3rd Cross	1	50			50.00		
c	Ashwathnagara Mamatha Scanning Center Road	1	50			50.00		
						150.00	330.00 Rmtr	49500.00
	CH. 50 to 100 m							
a	Prashanthinagara 3rd Cross	1	50			50.00		
b	Kaverinagra 3rd Cross	1	50			50.00		
c	Ashwathnagara Mamatha Scanning Center Road	1	50			50.00		
						150.00	430.00 Rmtr	64500.00
	CH. 100 to 150 m							
a	Prashanthinagara 3rd Cross	1	50			50.00		
b	Kaverinagra 3rd Cross	1	50			50.00		
c	Ashwathnagara Mamatha Scanning Center Road	1	50			50.00		
						150.00	478.00 Rmtr	71700.00
	CH. 150 to 200 m							
a	Prashanthinagara 3rd Cross	1	50			50.00		
b	Kaverinagra 3rd Cross	1	50			50.00		
c	Ashwathnagara Mamatha Scanning Center Road	1	50			50.00		
						150.00	505.00 Rmtr	75750.00
	CH. 200 to 250 m							
a	Prashanthinagara 3rd Cross	1	50			50.00		
b	Kaverinagra 3rd Cross	1	50			50.00		
c	Ashwathnagara Mamatha Scanning Center Road	1	50			50.00		
						150.00	585.00 Rmtr	87750.00
	CH. 250 to 300 m							
a	Prashanthinagara 3rd Cross	1	50			50.00		
b	Kaverinagra 3rd Cross	1	50			50.00		
c	Ashwathnagara Mamatha Scanning Center Road	1	50			50.00		
						150.00	627.00 Rmtr	94050.00
	CH. 300 to 370 m							
a	Prashanthinagara 3rd Cross	1	75			75.00		
b	Kaverinagra 3rd Cross	1	65			65.00		
c	Ashwathnagara Mamatha Scanning Center Road	1	60			60.00		
						200.00	649.00	129800.00
	Note: Ashwathnagar BW Failed							
9	Supplying of ISI Mark 175 mm nominal bore medium black ERW casing pipe of 5mm thick black electric resistance continous welded midle steel tube material confirming to IS 1387/1993 and manufactured from hot rolled steel skelp/stripes in random length of 4 to 7 mtr both ends threaded confirming to IS 554/1985 one end(including of all taxes) (P.NO-III, I.NO-84, PRED 12-13 SR)						Rmtr	
a	Prashanthinagara 3rd Cross	1	56.00			56.00		
b	Kaverinagra 3rd Cross	1	62.00			62.00		

Scanned with CamScan

	DESCRIPTIONS	NO	Length mtr	Width 1 mtr	Depth mtr	Quntity	Unit / Rate in Rs.	Amount in Rs.
	Ashwathnagara Mamatha Scanning Center Road	1	58.00			58.00		
						176.00	1426.00	250976.00
9	Providing and fixing 250mm dia PVC pipe and as per specification and directions.(BWSSB SR 13-14, P.No.53 I.no.1 of sl.no.11.)						Rmtr	
a	Prashanthinagara 3rd Cross	1	12.00			12.00		
b	Kaverinagra 3rd Cross	1	12.00			12.00		
c	Ashwathnagara Mamatha Scanning Center	1	12.00			12.00		
						36.00	1183.00	42588.00
11	**175 mm dia M.S. Casing cap** (P.NO-III, I.NO-85, PRED 12-13 SR)						Each	
a	Prashanthinagara 3rd Cross	1				1		
b	Kaverinagra 3rd Cross	1				1		
c	Ashwathnagara Mamatha Scanning Center	1				1		
						3.00	107.00	321.00
12	**M.S. Casing pipe collars 'C' Class** (P.NO-III, I.NO-86, PRED 12-13 SR)						Each	
a	Prashanthinagara 3rd Cross	1	10.00			10.00		
b	Kaverinagar 3rd Cross	1	10.00			10.00		
c	Ashwathnagara Mamatha Scanning Center	1	10.00			10.00		
						30.00	161.00	4830.00
13	**Fabricating supplying and mounting MS box** of 16 SWG suitable for floor / wall mounting, fully weather proof with provision for better hear description, (providing with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished 2 coats of red oxide primes paint and finally finished with approved colour enamelled metal paint etc,. complete box of 21600 sq cm (P.NO-530, I.NO-39 b, BWSSB SR 13-14)						sqm	
	Prashanthinagara 3rd Cross	1	1100	20.00		22000.00		
	Kaverinagra 3rd Cross	1	1100	20.00		22000.00		
	Anjanadri Layout Near Masjid	1	1100	20.00		22000.00		
	for Additional MS Box							
	Ashwathnagara Near Bharati Public School	1	1100	20.00		22000.00		
	Thanisandra Near Govt School	1	1100	20.00		22000.00		
	Bhuvaneshwarinagra 17th Cross	1	1100	20.00		22000.00		
	Bharathnagara Sawmill Road	1	1100	20.00		22000.00		
	Rachenahalli Near IBM Gate	1	1100	20.00		22000.00		
						176000.00	0.35	61600.00
14	**Labour charges** for erection of new /repaired submersible pumpset along with GI pipes (32/50mm) cable (new submersible pumpset if required will be supplied by the department free of cost and released pump set should be handed over to department) including transportation (each length = 6.00m) (P.No - 564, I.No - 3, BWSSB SR 13-14)						no	
	Prashanthinagara 3rd Cross	1	50.00			50.00		
	Kaverinagra 3rd Cross	1	50.00			50.00		
	Anjanadri Layout Near Masjid	1	50.00			50.00		
						150.00	95.00	14250.00
15	**Erection of combined panel board meter** board with all necessary materials and labour including providing CC 1:3:6 foundation bed etc,. Complete for basement out door type. (MR)						no	
	Prashanthinagara 3rd Cross	1				1.00		
	Kaverinagra 3rd Cross	1				1.00		
	Anjanadri Layout Near Masjid	1				1.00		
						3.00	496.00	1488.00
16	**Supplying and fixing of Porcelain fuse** channel with cut out on existing wooden / panel using necessary nuts, bolts and washer etc., complete.... P No. 32/I No 3b KPWD Electrical SR 2010-11						no	
	Prashanthinagara 3rd Cross	1	3.00			3.00		
	Kaverinagra 3rd Cross	1	3.00			3.00		
	Anjanadri Layout Near Masjid	1	3.00			3.00		
						9.00	156.00	1404.00

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P Bangalore-560024

Scanned with CamScanner

	DESCRIPTIONS	NO	Length	Width 1	Depth	Quntity	Unit / Rate in Rs.	Amount in Rs.
			mtr	mtr	mtr			
18	Supplying and laying of **L.T.U.G Cable** having aluminiumconductor PVC insulated shethed galvanised steel wire/ steel tape armoured cable with PVC outer sheathing 1.1 KV class 4 core 16 sqmm cable (confirming to IS 1554) (P.NO - 553, I.NO - 10 (d), BWSSB SR 13-14)						mtr	
	Qty as per Premeasurement Recorded vide E-MB Page No. is							
	Prashanthinagara 3rd Cross	1	30.00			30.00		
	Kaverinagra 3rd Cross	1	35.00			35.00		
	Anjanadri Layout Near Masjid	1	40.00			40.00		
	Additional LTUG Cable							
	Dasarahalli Cavery Layout Near Temple	1	26.00			26.00		
	Thanisandra Colony	1	18.00			18.00		
	Akashvani Layout 9th Cross	1	20.00			20.00		
	Cavery Layout 3rd Cross	1	14.00			14.00		
						183.00	178.00	**32574.00**
19	Digging of trenches of 0.6mm x 0.50 Mtrs wide refilling the trench to the required ground level and consolidating etc,. Complete sutting road surfaces (P.NO - 554, I.NO - 12 (b), BWSSB SR 13-14)						mtr	
	Prashanthinagara 3rd Cross	1	30.00			30.00		
	Kaverinagra 3rd Cross	1	35.00			35.00		
	Anjanadri Layout Near Masjid	1	40.00			40.00		
	Additional LTUG Cable							
	Dasarahalli Cavery Layout Near Temple	1	26.00			26.00		
	Thanisandra Colony	1	18.00			18.00		
	Akashvani Layout 9th Cross	1	20.00			20.00		
	Cavery Layout 3rd Cross	1	14.00			14.00		
						183.00	59.00	**10797.00**
20	Supplying and fixing **Class-A GI Pipe** on pole/ wall/drain crossing with necessary clamping arrangements for UG Cable of 1.1 KV class 40mm (P.NO - 555, I.NO - 15 (b), BWSSB SR 13-14)						mtr	
	Prashanthinagara 3rd Cross	1	3.00			3.00		
	Kaverinagra 3rd Cross	1	3.00			3.00		
	Anjanadri Layout Near Masjid	1	3.00			3.00		
						9.00	307.00	**2763.00**
21	Supplying and fixing **wiring earth electrode for grounding conduits,** IC cutouts and other equipments on the meter board using 40mm dia 2.90 mm thick GI pipe 2.5 mtr long buried in a pit,/ the pit should be filled with equal proportion of salt and charocal 150 mm alround the pipe to complete depth the connections from the pipe to the conduit etc,. is to be established though GI wire of size as per ISI specification 7.3.3 of ISI 732 using 12mm dia boalts, nuts washers and checknuts etc,. the pipe shall have 16 through holes of 122mm dia (P.NO - 552, I.NO - 7 , BWSSB						No	
	Prashanthinagara 3rd Cross	1				1.00		
	Kaverinagra 3rd Cross	1				1.00		
	Anjanadri Layout Near Masjid	1				1.00		
						3.00	1775.00	**5325.00**
22	Supply and fixing LT cast iron **pot heads** suitable for 1.1 KV class 16 sqmmUG cable filled with necessary bitumen/ insulating compound complete with terminals, clamps, bolts nuts and washers etc, (P.NO - 555, I.NO - 16 (b) , BWSSB SR 13-14)						no	
	Prashanthinagara 3rd Cross	1				1		
	Kaverinagra 3rd Cross	1				1		
	Anjanadri Layout Near Masjid	1				1		
						3.00	284.00	**852.00**
23	Supplying and fixing of polished **wood board** made of not less than 15mm thick plank on both sides with planks made out on not more than 2 pieces and fixing the same to wall using tapered inverted wooden plugs screws etc., Size 20 x 20 x 2.5 inches (P.NO - 521, I.NO - 2 (f), BWSSB SR						no	
	Prashanthinagara 3rd Cross	1				1		
	Kaverinagra 3rd Cross	1				1		
	Anjanadri Layout Near Masjid	1				1		
						3	325.00	**975.00**
	Borewell Cap and Clamp Set (PWD SR 2018-19, Page No. XLVII, Sl nO. 17)						set	
	Prashanthinagara 3rd Cross	1				1		
	Kaverinagra 3rd Cross	1				1		

Assistant Executive Engineer
Byatarayanapura Sub Division

Scanned with CamScanner

DESCRIPTIONS	NO	Length	Width 1	Depth	Quntity	Unit / Rate in Rs.	Amount in Rs.
		mtr	mtr	mtr			
Ashwathnagara Mamatha Scanning Center Road	1				1		
					3	1881.00	5643.00
Supply & delivery at site brand new texmo/innoval/lubi/sabar /Atalanta/calamal/ waterman/Radha make suitable HP deep well **submercible pumpset** suitable for vertical installation in 150 dia borewells compressing of single stage or multistage CF pump close coupled by means of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water squirrel cagesubmercible induction motor suitable for operation of 3Ph, 50Hz.380/440 volts AC supply fitted with required accessories such as suction, casing, suction strainers, sand guard. Non return valve etc Complete the pump and motor shall from an integral unit with all the required fittings 17.50 HP 30 stage (P.NO-XXXXIII, I.NO-34, PWD SR 18-19)						no	
Prashanthinagara 3rd Cross	1				1		
Kaverinagra 3rd Cross	1				1		
Anjanadri Layout Near Masjid	1				1		
For Additional Motor							
Hegadenagara 6th Cross	1				1		
Hegadenagara New Shanthinagra	1				1		
Ashwathnagara Near Bharathi Public School	1				1		
Hegadenagra 7th Cross	1				1		
Shabarinagara 2nd Main Road 2nd Cross	1				1		
Bhuvaneshwarinagara 17th Cross	1				1		
					9	70771.00	636939.00
Supply & delivery at site brand new texmo/innoval/lubi/sabar /Atalanta/calamal/ waterman/Radha make suitable HP deep well **submercible pumpset** suitable for vertical installation in 150 dia borewells compressing of single stage or multistage CF pump close coupled by means of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water squirrel cagesubmercible induction motor suitable for operation of 3Ph, 50Hz.380/440 volts AC supply fitted with required accessories such as suction, casing, suction strainers, sand guard. Non return valve etc Complete the pump and motor shall from an integral unit with all the required fittings 10HP 20 stage						no	
Dasarahalli Near Sub Division office	1				1		
Dasarahalli Colony	1				1		
					2	61096.00	122192.00
Providing, laying & jointing **GI pipes** confirming to IS specification of approved make with fittings such as collars bends elbows tees nipples plugs with cuts threads using white lead & threads for joints wherever necessary as per direction including all lead & lift etc,. complete 'A' grade(excluding cost of fittings) 50mm dia GI pipe B Class (SR 18-19 PWD, P.No.XLVII Sl.no. 1						rmtr	
Prashanthinagara 3rd Cross	1	342.00			342.00		
Kaverinagra 3rd Cross	1	336.00			336.00		
Anjanadri Layout Near Masjid	1	342.00			342.00		
Aditional GI Pipes							
Siridi Sai Rathan Layout Near School	1	30.00			30.00		
Rachenahalli Near Sri. Ganesh Temple	1	48.00			48.00		
Hegadenagara,Cavery nagara 1st Cross	1	36.00			36.00		
Dasrahalli Behind Sri Chowdeshwari Temple	1	48.00			48.00		
Hegadenagara 11th Cross	1	42.00			42.00		
Hegadenagara 3rd Cross Near Welding Shop	1	60.00			60.00		
					1284.00	433.00	555972.00
Supply and fixing **Collar for GI Pipes 50MM** (Page No. XLVII, Sl NO.2, PWD SR-2018-19						no	
Prashanthinagara 3rd Cross	1	58			58.00		
Kaverinagra 3rd Cross	1	57			57.00		
Anjanadri Layout Near Masjid	1	58			58.00		
Additional GI Colour							

15/6/22

15/6/22

15/6/22

Assistant Executive Engineer
Byatarayanapura Sub Division
BBMP Bangalore-560024

Scanned with CamScanner

DESCRIPTIONS	NO	Length mtr	Width 1 mtr	Depth mtr	Quntity	Unit / Rate in Rs.	Amount in Rs.
Siridi Sai Rathan Layout Near School	1	6			6.00		
Rachenahalli Near Sri. Ganesh Temple	1	9			9.00		
Hegadenagara,Cavery nagara 1st Cross	1	7			7.00		
Dasrahalli Behind Sri Chowdeshwari Temple	1	9			9.00		
Hegadenagara 11th Cross	1	8			8.00		
Hegadenagara 3rd Cross Near Welding	1	11			11.00		
					223.00	188.00	**41924.00**

28 Supplying of **submersible pump cable** 1X3X6..0 Sq.mm (Page No. XLVII, Sl NO. 8, PWD SR-2018-19 — mtr

Qty as per Premeasurement Recorded vide E-MB Page No. is

Prashanthinagara 3rd Cross	1	689.00			689.00		
Kaverinagra 3rd Cross	1	676.00			676.00		
Anjanadri Layout Near Masjid	1	689.00			689.00		
				Actiual Qty	2054.00		
				Limited to	**2054.00**	150.00	**308100.00**

29 Supplying & delivery at site brand new / Essen / Lotus sunsines/Adarsh/ Gk controls best indigenous make combine **energy meter-cum-control panel board** unit of size 1200 x 600 x 300 mm minimum mechanically strong and vermin and water proof the unit shall have two detachable doors suitable for operation on 3ph, 50Hz, 380/440 volts, AC supply with spring loaded latch locking with a key ribs should be provided inside the door , canopy apron and louvers ventilators shall be provided the combine energy mtr cum control panel board unit suitable for operation on 3ph, 50Hz, 380/440 AC supply shall be consisted etc,. completed T panel board shall be fabricated on single unit in the above components panel board for suitable pumpset above components panel board for suitable pumpset above Up to 20HP with star delta starter (MR) Page No. XLVII, Sl NO. 13 PWD SR 2018-19 — no

Prashanthinagara 3rd Cross	1				1		
Kaverinagra 3rd Cross	1				1		
Anjanadri Layout Near Masjid	1				1		
					3	21945.00	65835.00

30 Supplying & delivery of brand **50mm Gate Valve.** (PWD SR 18-19, P.NO.XLVII Sl.no, 15 — no

Prashanthinagara 3rd Cross	1				1		
Kaverinagra 3rd Cross	1				1		
Anjanadri Layout Near Masjid	1				1		
					3	1881.00	5643.00

31 Supplying & delivery of brand **50mm Non Return Valve.** (PWD SR 18-19, P.NO.XLVII Sl.no, 16 — no

Qty as per Premeasurement Recorded vide E-MB Page No. is

Prashanthinagara 3rd Cross	1				1		
Kaverinagra 3rd Cross	1				1		
Anjanadri Layout Near Masjid	1				1		
					3	1881.00	5643.00

32 Supplying and fixing **MCB** (P.NO - XLVII, SL.NO - 19, PWD SR 18-19) — mtr

Qty as per Premeasurement Recorded vide E-MB Page No. Is

Prashanthinagara 3rd Cross	1				1		
Kaverinagra 3rd Cross	1				1		
Anjanadri Layout Near Masjid	1				1		
					3	940.00	2820.00

33 **Earthwork excavation for foundation of buildings**, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in Ordinary soil not exceeding 1.5 m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods complete as per specifications (P.NO - 6, I.NO - 2.3, PWD SR 18-19) — cum

Qty as per Premeasurement Recorded vide E-MB Page No. Is

					1261.35	332.00	**418768.00**

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P Bangalore-560024

Scanned with CamScan

DESCRIPTIONS	NO	Length mtr	Width 1 mtr	Depth mtr	Quntity	Unit / Rate in Rs.	Amount in Rs.
viding and installing at site of work **63mm (0.662) PVC Pipes of 6 kg** / cm2 including cost of pes and specials and labour, including lowering into trenches, laying true to line, level and perfect nking at joints leak proof including jointing of approved type with all labour and lift charges, handling charges including encasing the pipe alround to a depth not less than 15cms with gravel or selected earth available from the excavation etc., complete (P.NO - 94, I.NO - 13.73.2, PWD SR 18-19)						mtr	
Qty as per Premeasurement Recorded vide E-MB Page No. is 3705					**2803.00**	412.00	**1154836.00**
Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m and lift upto 1.5m including cost of all labour complete as per specifications (P.NO - 7, I.NO - 2.11, PWD SR 18-19)						cum	
Qty as per Premeasurement Recorded vide E-MB Page No. is 5707					**1261.35**	134.00	**169021.00**
Bescom Deposits							118.00
For Application Fee	1	118.00					17710.00
For BESCOM Deposit	1	17710.00					1730.00
For MSD Fees	1	1730.00					19558.00
						Total of BESCOM deposit	
						Total of Other SR Items	1035072.00
						Total of PWD SR Items	4604805.00
						Grand Total Amount	**5639877.00**
						12% GST for PWD SR Only	552577.00
						Net Total Amount	**6192454.00**

1028454/- 4609323/- 5637777 5531876 6190895.76

Note : BW at Ashwathnagara Mamata scanning center is failed due to very less yield. Hence one set of Pump /motor and GI pipe & cable etc provided to exsisting BW at Anjadri layout near masjid as there is scarcity of water in the area.

Round off: 6190000.00

15.06.2022
Assistant Engineer

15/6/2022
Assistant Executive Engineer
Byatarayanapura Sub Division.
Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M P Bangalore-560024

Scanned with CamScanner